

SHIP GROUND STATION FACILITY



The Ship Ground Station (SGS) provides a land-based means of evaluating the integration between airborne and shipboard weapons system elements. SGS provides surface electronic systems, data extraction, simulation, stimulation, and provisions for integration with other major RDT&E assets both on-board and remote to the Naval Aviation Systems Team in Patuxent River, MD. SGS uses an extensive data extraction and analysis capability to characterize system and subsystem performance. SGS may be operated as a stand-alone asset or as an element of wide-area interoperability scenarios.

SGS PERFORMS TEST AND EVALUATION ON SHIP/AIR WEAPONS SYSTEMS

Capabilities:

- Incorporates the LAMPS MK III subset of the AN/SQQ-89 surface ASW systems.
- Hosts both FFG-7 and DD-963 combat direction system.
- Supports operation of ship/air integrated systems in a stimulant-rich and scientifically controlled environment from a sub-system to full mission system level.
- Supports quantitative assessment of subsystem and system level performance with emphasis on data extraction from shipboard, airborne, and range sources.
- Provides Naval Tactical Data System message tracking, extraction, and verification from ship/air interface data busses.
- Defines quantitative performance while employing fleet- representative procedures and operators.
- Provides LAMPS data link and sonobuoy signal connectivity to several on-base aircraft hangars for support of cost-effective ground-based testing
- Operates ship-to-ship LAMPS data link with the AEGIS Combat System Center (ACSC), Wallops Island, Virginia.
- Maintains fiber optic connections with the Atlantic Test Range to obtain real-time extraction of aircraft Time, Space, and Position truth data.



- Will support multi-platform RDT&E as a key activity slated for inclusion in the Air Interoperability Center's classified scientific and engineering fiber optic network.
- Connectivity to the Defense Simulation Internet at a T-1 data rate to support test and training scenarios.

Major equipment assets:

- AN/SQQ-28(V) Sonar Signal Processing System.
- AN/SLQ-32(V) Electronic Support Measures Set.
- AN/SQQ-89(V)T On Board Trainer (OBT).
- AN/UYK-7(V) Data Handling Group.
- AN/UYA-4(V) Data Display Group.
- AN/USQ-74 Naval Tactical Data System Link II Terminal.
- Logicon LINK 11 Data Terminal Simulator Set (DTSS).

- HP-9000 Series J-210 Tactical Advanced Computer (TAC-4).
- TAC-4 Computer-based OBT Trainer Control Device.
- HP-9000 series 750 Tactical Advanced Computer (TAC-3).
- TAC-3 Computer-based SGS Integrated Mission Data Extraction System (SIMDEX).
- AN/UYK-44 Mini-Signals and Data Processing Unit (MSDPU).
- Digital Equipment VAX 4000G.
- AN/SPA-50G TACNAV /Radar Terminal Set.
- AN/SQR- 17A(V) Sonar Signal Processing Set.
- AN / S K R - 4 B (V) Telemetric Data Receiver.

For more information contact the Ship Ground Station at 301-342-4468.